

Hansen-SDG15: Maintaining Life on Land

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Overview

In order to help countries sustain forest ecosystems, we have been working closely with leading scientific institutions and governmental ministries in Colombia, Ecuador, and Peru to use remote sensing and other spatial data to calculate comprehensive indicators, validate these indicators for national use, and make them available via a decision support system for policy development and reporting on SDG 15.

Objectives

- 1. Assess the collaborating countries' needs for decision support regarding SDG15 under climate change
- 2. Project change to 2100 in forest structure and composition, vertebrate habitats, and water risk under scenarios of climate, socioeconomics, and policy
- 3. Use results to inform reporting and policymaking for SDG15
- 4. Develop an SDG decision support system

Topics for Poster

SDG15 Indicators and Partners
Modeling Human Footprint
Analysis of riparian forest and hydrology
Projection of ecosystem types and vertebrate species.





Scenarios

Climate	Socioeconomic (Policy)	
	Business as usual	Conservation policies to meet SDG15 targets
RCP 4.5		
RCP 8.5		

Project Flow

Goals SDG15 Targets

<u>Historic patterns</u> SDG15 metrics 2000-2020

Develop models

Biodiversity response to climate and human footprint

Potential future patterns

Forecasts under scenarios 2020-2050

Conservation planning
Develop and implement plans to

meet SDG15 targets based on what is learned from forecasts

SDG15 indicators, metrics



Monitor and evaluate
SDG15 Indicators
SDG15 Metrics

Report
Status and change in









